SEQUENCE LISTING

<110> Blaschuk, Orest W.
Michaud, Stephanie Denise

<120> COMPOUNDS AND METHODS FOR MODULATING FUNCTIONS OF CLASSICAL CADHERINS

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<141> 2003-11-14

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<220>
<223> Exemplary Trp-containing CAR sequences or
conservative analogues thereof

<400> 116
Glu Trp Val Leu Ala
1 5

<210> 117
<211> 5
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or
conservative analogues thereof

<400> 117
Glu Trp Ile Leu Ala
1 5

<210> 118
<211> 5
<212> PRT

<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or
conservative analogues thereof

<400> 118
Glu Trp Leu Leu Ala
1 5

<210> 119
<211> 6
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or
conservative analogues thereof

<400> 119
Asp Trp Val Leu Pro Pro
1 5

<210> 120
<211> 6
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or
conservative analogues thereof

<400> 120
Asp Trp Ile Leu Pro Pro
1 5

<210> 121
<211> 6
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or
conservative analogues thereof

<400> 121
Asp Trp Leu Leu Pro Pro
1 5

<210> 122

<211> 6
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or
conservative analogues thereof

<400> 122
Glu Trp Val Leu Pro Pro
1 5

<210> 123
<211> 6
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or
conservative analogues thereof

<400> 123
Glu Trp Ile Leu Pro Pro
1 5

<210> 124
<211> 6
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or
conservative analogues thereof

<400> 124
Glu Trp Leu Leu Pro Pro
1 5

<210> 125
<211> 6
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or
conservative analogues thereof

<400> 125
Asp Trp Val Leu Ala Pro
1 5

<210> 126
<211> 6
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or
conservative analogues thereof

<400> 126
Asp Trp Ile Leu Ala Pro
1 5

<210> 127
<211> 6
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or
conservative analogues thereof

<400> 127
Asp Trp Leu Leu Ala Pro
1 5

<210> 128
<211> 6
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or
conservative analogues thereof

<400> 128
Glu Trp Val Leu Ala Pro
1 5

<210> 129
<211> 6
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or
conservative analogues thereof

<400> 129
Glu Trp Ile Leu Ala Pro

1 5

<210> 130
<211> 6
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or conservative analogues thereof

<400> 130
Glu Trp Leu Leu Ala Pro
1 5

<210> 131
<211> 4
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or conservative analogues thereof

<400> 131
Trp Val Leu Pro
1

<210> 132
<211> 4
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or conservative analogues thereof

<400> 132
Trp Ile Leu Pro
1

<210> 133
<211> 4
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or conservative analogues thereof

<400> 133
Trp Leu Leu Pro
1

<210> 134
<211> 4
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or conservative analogues thereof

<400> 134
Trp Val Leu Ala
1

<210> 135
<211> 4
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or conservative analogues thereof

<400> 135
Trp Ile Leu Ala
1

<210> 136
<211> 4
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or conservative analogues thereof

<400> 136
Trp Leu Leu Ala
1

<210> 137
<211> 5
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or

conservative analogues thereof

<400> 137
Trp Val Leu Pro Pro
1 5

<210> 138
<211> 5
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or conservative analogues thereof

<400> 138
Trp Ile Leu Pro Pro
1 5

<210> 139
<211> 5
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or conservative analogues thereof

<400> 139
Trp Leu Leu Pro Pro
1 5

<210> 140
<211> 5
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or conservative analogues thereof

<400> 140
Trp Val Leu Ala Pro
1 5

<210> 141
<211> 5
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or
conservative analogues thereof

<400> 141
Trp Ile Leu Ala Pro
1 5

<210> 142
<211> 5
<212> PRT
<213> UNKNOWN

<220>
<223> Exemplary Trp-containing CAR sequences or
conservative analogues thereof

<400> 142
Trp Leu Leu Ala Pro
1 5

<210> 143
<211> 5
<212> PRT
<213> UNKNOWN

<220>
<223> Modulating agent

<400> 143
Asp Trp Val Val Ala
1 5

<210> 144
<211> 5
<212> PRT
<213> UNKNOWN

<220>
<223> Modulating agent

<400> 144
Glu Trp Val Met Pro
1 5

<210> 145
<211> 5
<212> PRT
<213> UNKNOWN

<220>
<223> Preferred CAR sequence for inclusion with a modulating agent

<400> 145
Tyr Ile Gly Ser Arg
1 5

<210> 146
<211> 10
<212> PRT
<213> UNKNOWN

<220>
<223> Preferred CAR sequence for inclusion with a modulating agent

<400> 146
Lys Tyr Ser Phe Asn Tyr Asp Gly Ser Glu
1 5 10

<210> 147
<211> 9
<212> PRT
<213> UNKNOWN

<220>
<223> Preferred CAR sequence for inclusion with a modulating agent

<400> 147
Ser Phe Thr Ile Asp Pro Lys Ser Gly
1 5

<210> 148
<211> 4
<212> PRT
<213> UNKNOWN

<220>
<223> Preferred CAR sequence for inclusion with a modulating agent

<400> 148
Leu Tyr His Tyr
1

<210> 149
<211> 8
<212> PRT

<213> UNKNOWN

<220>
<223> Preferred CAR sequence for inclusion with a
modulating agent

<221> VARIANT
<222> 2
<223> Xaa = Lys or Arg

<221> VARIANT
<222> 3,4
<223> Xaa = any amino acid

<221> VARIANT
<222> 5
<223> Xaa = Ser or Ala

<221> VARIANT
<222> 6
<223> Xaa = Tyr or Phe

<221> VARIANT
<222> 7
<223> Xaa = any amino acid

<400> 149
Trp Xaa Xaa Xaa Xaa Xaa Xaa Gly
1 5

<210> 150
<211> 9
<212> PRT
<213> UNKNOWN

<220>
<223> Preferred CAR sequence for inclusion with a
modulating agent

<221> VARIANT
<222> 1,3
<223> Xaa = any amino acid

<221> VARIANT
<222> 4
<223> Xaa = Ile, Leu or Val

<221> VARIANT
<222> 5
<223> Xaa = Asp, Asn or Glu

<221> VARIANT
<222> 6,7

<223> Xaa = any amino acid

<221> VARIANT
<222> 8
<223> Xaa= Ser, Thr or Asn

<400> 150
Xaa Phe Xaa Xaa Xaa Xaa Xaa Xaa Gly
 1   5

<210> 151
<211> 4
<212> PRT
<213> UNKNOWN

<220>
<223> Representative claudin CAR sequence

<400> 151
Ile Tyr Ser Tyr
 1

<210> 152
<211> 4
<212> PRT
<213> UNKNOWN

<220>
<223> Representative claudin CAR sequence

<400> 152
Thr Ser Ser Tyr
 1

<210> 153
<211> 4
<212> PRT
<213> UNKNOWN

<220>
<223> Representative claudin CAR sequence

<400> 153
Val Thr Ala Phe
 1

<210> 154
<211> 4
<212> PRT
<213> UNKNOWN

<220>
<223> Representative claudin CAR sequence

<400> 154
Val Ser Ala Phe
 1

<210> 155
<211> 14
<212> PRT
<213> UNKNOWN

<220>
<223> Trp-containing CAR sequence that may be linked in
      tandem.

<400> 155
Cys Asp Trp Val Ile Pro Pro Asp Trp Val Ile Pro Pro Cys
 1   5   10

<210> 156
<211> 14
<212> PRT
<213> UNKNOWN

<220>
<223> Trp-containing CAR sequence that may be linked in
      tandem.

<400> 156
Cys Asp Trp Val Ile Pro Pro Pro Pro Ile Val Trp Asp Cys
 1   5   10

<210> 157
<211> 14
<212> PRT
<213> UNKNOWN

<220>
<223> Trp-containing CAR sequence that may be linked in
      tandem.

<400> 157
Cys Pro Pro Ile Val Trp Asp Asp Trp Val Ile Pro Pro Cys
 1   5   10

<210> 158
<211> 4
<212> PRT

<213> UNKNOWN

<220>
<223> Sequence which is reacted with the carboxylic acid
as a method of carbodiimide-mediated lactam
formation.

<400> 158
Glu Asp Ala Cys
1

<210> 159
<211> 4
<212> PRT
<213> UNKNOWN

<220>
<223> Sequence which is reacted with the carboxylic acid
as a method of carbodiimide-mediated lactam
formation.

<400> 159
Asp Cys Cys Ile
1

<210> 160
<211> 48
<212> PRT
<213> uNKNOWN

<220>
<223> Occludin CAR sequence

<400> 160
Gly Val Asn Pro Thr Ala Gln Ser Ser Gly Ser Leu Tyr Gly Ser Gln
1 5 10 15
Ile Tyr Ala Leu Cys Asn Gln Phe Tyr Thr Pro Ala Ala Thr Gly Leu
20 25 30
Tyr Val Asp Gln Tyr Leu Tyr His Tyr Cys Val Val Asp Pro Gln Glu
35 40 45

<210> 161
<211> 6
<212> PRT
<213> UNKNOWN

<220>
<223> Trp-containing peptide

<400> 161
Ala Trp Val Ile Pro Pro

1 5

<210> 162
<211> 6
<212> PRT
<213> UNKNOWN

<220>
<223> Trp-containing peptide

<400> 162
Asp Trp Val Ile Ala Pro
1 5

<210> 163
<211> 6
<212> PRT
<213> UNKNOWN

<220>
<223> Trp-containing peptide

<400> 163
Asp Trp Val Ile Pro Ala
1 5

<210> 164
<211> 6
<212> PRT
<213> UNKNOWN

<220>
<223> Trp-containing peptide

<400> 164
Asp Trp Val Ala Pro Pro
1 5

<210> 165
<211> 6
<212> PRT
<213> UNKNOWN

<220>
<223> Trp-containing peptide

<400> 165
Pro Trp Val Ile Pro Pro
1 5

<210> 166
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer

<400> 166
tggtcgtgcc gctgcctcct cctcct 26

<210> 167
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 167
tgccaaagcc tccagcaagc actgtgc 27

<210> 168
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Trp-containing CAR sequence

<221> VARIANT
<222> 1
<223> Xaa = Asp or Glu

<221> VARIANT
<222> 4
<223> Xaa = Ile, Val or Met

<221> VARIANT
<222> 5
<223> Xaa = Pro or Ala

<400> 168
Xaa Trp Val Xaa Xaa Pro
1 5

<210> 169
<211> 108
<212> PRT
<213> Homo sapiens

<400> 169

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Asp Trp Val Ile Pro Pro Ile Asn Leu Pro Glu Asn Ser Arg Gly Pro
 1               5                  10                  15
Phe Pro Gln Glu Leu Val Arg Ile Arg Ser Asp Arg Asp Lys Asn Leu
            20                  25                  30
Ser Leu Arg Tyr Ser Val Thr Gly Pro Gly Ala Asp Gln Pro Pro Thr
        35                  40                  45
Gly Ile Phe Ile Leu Asn Pro Ile Ser Gly Gln Leu Ser Val Thr Lys
    50                  55                  60
Pro Leu Asp Arg Glu Gln Ile Ala Arg Phe His Leu Arg Ala His Ala
65                  70                  75                  80
Val Asp Ile Asn Gly Asn Gln Val Glu Asn Pro Ile Asp Ile Val Ile
                85                  90                  95
Asn Val Ile Asp Met Asn Asp Asn Arg Pro Glu Phe
            100                 105
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<210> 170
<211> 108
<212> PRT
<213> Mus musculus

<400> 170

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Asp Trp Val Ile Pro Pro Ile Asn Leu Pro Glu Asn Ser Arg Gly Pro
 1               5                  10                  15
Phe Pro Gln Glu Leu Val Arg Ile Arg Ser Asp Arg Asp Lys Asn Leu
            20                  25                  30
Ser Leu Arg Tyr Ser Val Thr Gly Pro Gly Ala Asp Gln Pro Pro Thr
        35                  40                  45
Gly Ile Phe Ile Ile Asn Pro Ile Ser Gly Gln Leu Ser Val Thr Lys
    50                  55                  60
Pro Leu Asp Arg Glu Leu Ile Ala Arg Phe His Leu Arg Ala His Ala
65                  70                  75                  80
Val Asp Ile Asn Gly Asn Gln Val Glu Asn Pro Ile Asp Ile Val Ile
                85                  90                  95
Asn Val Ile Asp Met Asn Asp Asn Arg Pro Glu Phe
            100                 105
```

<210> 171
<211> 108
<212> PRT
<213> Bos tarus

<400> 171

```
Asp Trp Val Ile Pro Pro Ile Asn Leu Pro Glu Asn Ser Arg Gly Pro
 1               5                  10                  15
Phe Pro Gln Glu Leu Val Arg Ile Arg Ser Asp Arg Asp Lys Asn Leu
            20                  25                  30
Ser Leu Arg Tyr Ser Val Thr Gly Pro Gly Ala Asp Gln Pro Pro Thr
        35                  40                  45
Gly Ile Phe Ile Ile Asn Pro Ile Ser Gly Gln Leu Ser Val Thr Lys
    50                  55                  60
Pro Leu Asp Arg Glu Leu Ile Ala Arg Phe His Leu Arg Ala His Ala
65                  70                  75                  80
```

```
Val Asp Ile Asn Gly Asn Gln Val Glu Asn Pro Ile Asp Ile Val Ile
                85                  90                  95
Asn Val Ile Asp Met Asn Asp Asn Arg Pro Glu Phe
            100                 105


<210> 172
<211> 108
<212> PRT
<213> Homo sapiens

<400> 172
Asp Trp Val Val Ala Pro Ile Ser Val Pro Glu Asn Gly Lys Gly Pro
 1               5                  10                  15
Phe Pro Gln Arg Leu Asn Gln Leu Lys Ser Asn Lys Asp Arg Asp Thr
            20                  25                  30
Lys Ile Phe Tyr Ser Ile Thr Gly Pro Gly Ala Asp Ser Pro Pro Glu
        35                  40                  45
Gly Val Phe Ala Val Glu Lys Glu Thr Gly Trp Leu Leu Leu Asn Lys
    50                  55                  60
Pro Leu Asp Arg Glu Glu Ile Ala Lys Tyr Glu Leu Phe Gly His Ala
65                  70                  75                  80
Val Ser Glu Asn Gly Ala Ser Val Glu Asp Pro Met Asn Ile Ser Ile
                85                  90                  95
Ile Val Thr Asp Gln Asn Asp His Lys Pro Lys Phe
            100                 105


<210> 173
<211> 108
<212> PRT
<213> Mus musculus

<400> 173
Glu Trp Val Met Pro Pro Ile Phe Val Pro Glu Asn Gly Lys Gly Pro
 1               5                  10                  15
Phe Pro Gln Arg Leu Asn Gln Leu Lys Ser Asn Lys Asp Arg Gly Thr
            20                  25                  30
Lys Ile Phe Tyr Ser Ile Thr Gly Pro Gly Ala Asp Ser Pro Pro Glu
        35                  40                  45
Gly Val Phe Thr Ile Glu Lys Glu Ser Gly Trp Leu Leu Leu His Met
    50                  55                  60
Pro Leu Asp Arg Glu Lys Ile Val Lys Tyr Glu Leu Tyr Gly His Ala
65                  70                  75                  80
Val Ser Glu Asn Gly Ala Ser Val Glu Glu Pro Met Asn Ile Ser Ile
                85                  90                  95
Ile Val Thr Asp Gln Asn Asp Asn Lys Pro Lys Phe
            100                 105


<210> 174
<211> 108
<212> PRT
<213> Homo sapiens
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<400> 174
Asp Trp Val Ile Pro Pro Ile Ser Cys Pro Glu Asn Glu Lys Gly Pro
1 5 10 15
Phe Pro Lys Asn Leu Val Gln Ile Lys Ser Asn Lys Asp Lys Glu Gly
20 25 30
Lys Val Phe Tyr Ser Ile Thr Gly Gln Gly Ala Asp Thr Pro Pro Val
35 40 45
Gly Val Phe Ile Ile Glu Arg Glu Thr Gly Trp Leu Lys Val Thr Glu
50 55 60
Pro Leu Asp Arg Glu Arg Ile Ala Thr Tyr Thr Leu Phe Ser His Ala
65 70 75 80
Val Ser Ser Asn Gly Asn Ala Val Glu Asp Pro Met Glu Ile Leu Ile
85 90 95
Thr Val Thr Asp Gln Asn Asp Asn Lys Pro Glu Phe
100 105

<210> 175
<211> 108
<212> PRT
<213> Mus musculus

<400> 175
Asp Trp Val Ile Pro Pro Ile Ser Cys Pro Glu Asn Glu Lys Gly Glu
1 5 10 15
Phe Pro Lys Asn Leu Val Gln Ile Lys Ser Asn Arg Asp Lys Glu Thr
20 25 30
Lys Val Phe Tyr Ser Ile Thr Gly Gln Gly Ala Asp Lys Pro Pro Val
35 40 45
Gly Val Phe Ile Ile Glu Arg Glu Thr Gly Trp Leu Lys Val Thr Gln
50 55 60
Pro Leu Asp Arg Glu Ala Ile Ala Lys Tyr Ile Leu Tyr Ser His Ala
65 70 75 80
Val Ser Ser Asn Gly Glu Ala Val Glu Asp Pro Met Glu Ile Val Ile
85 90 95
Thr Val Thr Asp Gln Asn Asp Asn Arg Pro Glu Phe
100 105

<210> 176
<211> 108
<212> PRT
<213> Homo sapiens

<400> 176
Asp Trp Val Ile Pro Pro Ile Asn Val Pro Glu Asn Ser Arg Gly Pro
1 5 10 15
Phe Pro Gln Gln Leu Val Arg Ile Arg Ser Asp Lys Asp Asn Asp Ile
20 25 30
Pro Ile Arg Tyr Ser Ile Thr Gly Val Gly Ala Asp Gln Pro Pro Met
35 40 45
Glu Val Phe Ser Ile Asp Ser Met Ser Gly Arg Met Tyr Val Thr Arg
50 55 60

```
Pro Met Asp Arg Glu Glu His Ala Ser Tyr His Leu Arg Ala His Ala
65                  70                  75                  80
Val Asp Met Asn Gly Asn Lys Val Glu Asn Pro Ile Asp Leu Tyr Ile
                85                  90                  95
Tyr Val Ile Asp Met Asn Asp Asn Arg Pro Glu Phe
            100                 105


<210> 177
<211> 108
<212> PRT
<213> Mus musculus

<400> 177
Asp Trp Val Ile Pro Pro Ile Asn Val Pro Glu Asn Ser Arg Gly Pro
 1               5                  10                  15
Phe Pro Gln Gln Leu Val Arg Ile Arg Ser Asp Lys Asp Asn Asp Ile
            20                  25                  30
Pro Ile Arg Tyr Ser Ile Thr Gly Val Gly Ala Asp Gln Pro Pro Met
        35                  40                  45
Glu Val Phe Asn Ile Asp Ser Met Ser Gly Arg Met Tyr Val Thr Arg
    50                  55                  60
Pro Met Asp Arg Glu Glu Arg Ala Ser Tyr His Leu Arg Ala His Ala
65                  70                  75                  80
Val Asp Met Asn Gly Asn Lys Val Glu Asn Pro Ile Asp Leu Tyr Ile
                85                  90                  95
Tyr Val Ile Asp Met Asn Asp Asn Arg Pro Glu Phe
            100                 105


<210> 178
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> calcium binding motif

<220>
<221> VARIANT
<222> 1,3
<223> Xaa = any amino acid


<400> 178
Xaa Asp Xaa Glu
 1


<210> 179
<211> 4
<212> PRT
<213> Artificial Sequence
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<220>
<223> calcium binding motif

<400> 179
Asp Val Asn Glu
 1